U.S. Census Bureau

Enterprise Architecture Support

EA Overview and EA Tool Demonstration

Department of Commerce
Architecture Affinity Group Briefing
June 4, 2002

Enterprise Architecture Vision

What's the Bureau's Enterprise Architecture Vision?

The Bureau of Census Enterprise Architecture will support the core business of the Census Bureau functioning as a strategic resource that aligns business and technology, leverages shared assets, builds internal and external partnerships, and optimizes the value of IT services.

Census EA Approach and Status

Initiate

1. **Task Planning** ☑

2. **Assessment**
   - Maturity ☑
   - BOC Strategy ☑
   - DoC Guidelines ☑

3. **EA Roadmap**
   - Direction ☑
   - Scope ☑
   - Products ☑

4. **Governance and Communication Planning** ☑

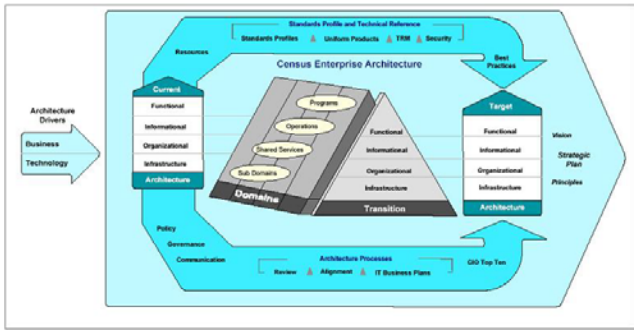
5. **Tools and Templates, Census EA Glossary** ☑

6. **EA Enhancement**
   - Principles ☑
   - Baseline ☑
   - Target Views ☑

7. **Gap Analysis**
   - Views
   - Dependencies

8. **Migration Plan**
   - Opportunities
   - Prioritization

9. **Close Iteration**
   - Next Steps
   - Lessons Learned



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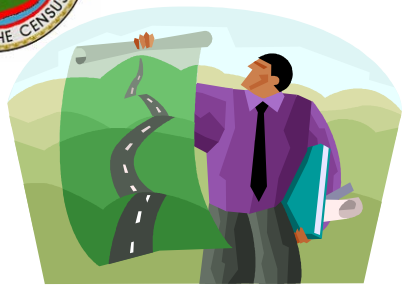
Roadmap, Governance, Communication Plans



Roadmap

The EA Roadmap defines the approach necessary to undertake the EA effort. It defines the vision, goals and objectives, scope, EA products, framework and lifecycle to be used, and the high level schedule.

Governance

EA Governance processes establish key decision-making teams and responsibilities that: encourage cross-functional and organizational involvement, align business needs with technology solutions and support IT solutions that are in-line with standards and manageable by the organization

Communication

The EA Communications Plan defines the audience and stakeholders, key messages, and communication vehicles necessary to support the success of the EA effort.

Census EA Principles

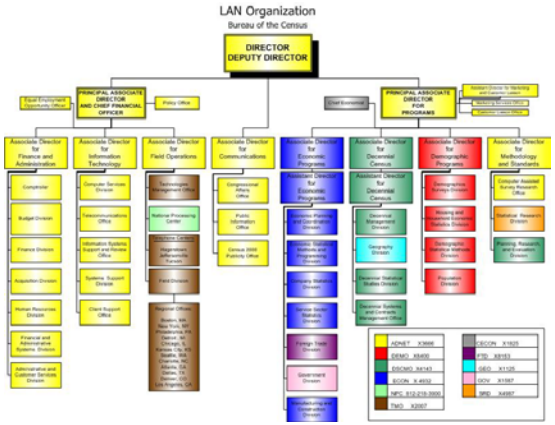
Census EA Principles are statements of preferred direction or practice.

We have developed principles across the architectural views.

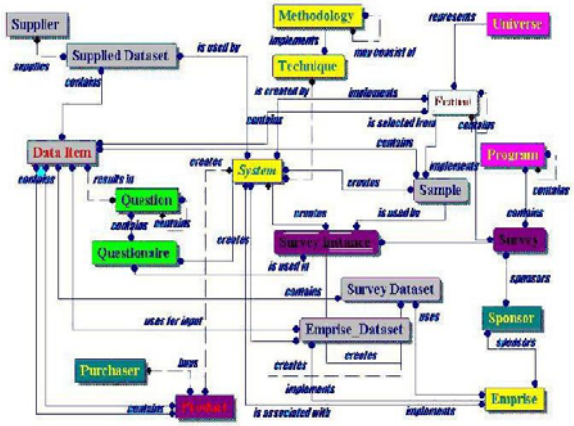
The principles also include a rationale statement and a list of Implications.

Example:
"Applications and infrastructure components will be designed and implemented to facilitate monitoring and measurement."

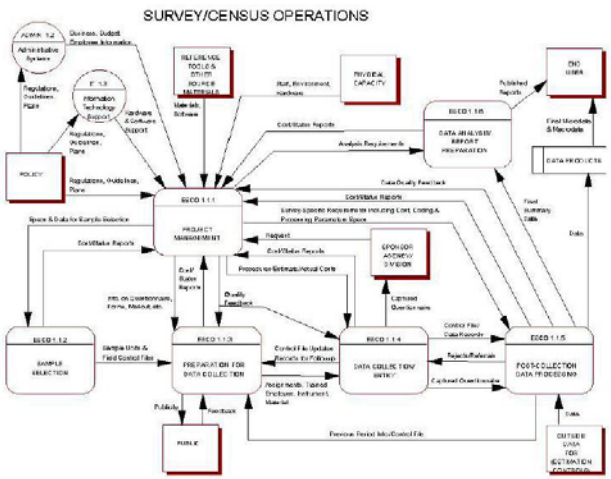
Census High-Level EA Views



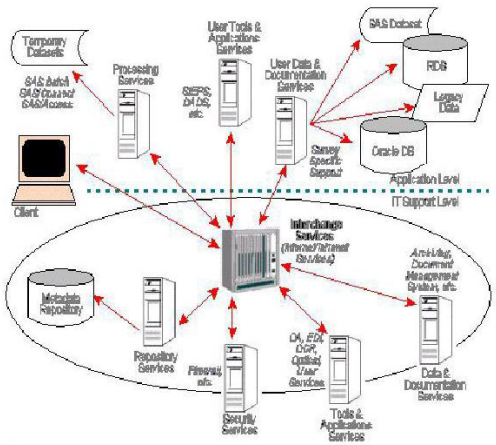
Organizational



Informational



Functional



Infrastructure

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EA Tools and Templates

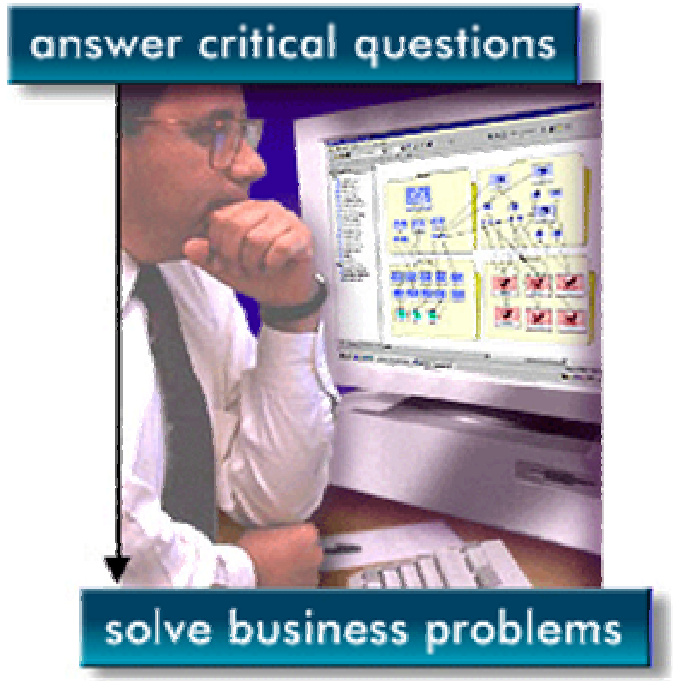
Census EA is supported through the use of an integrated

visually-based Enterprise Architecture Tool.

The goal of the tool is to produce

"a dynamic visual representation of an IT environment explicitly aligned to the business requirements within your enterprise"

{From Gartner and NCR I-Forms Bulletin}



Communicating EA at the Bureau

BUREAU OF CENSUS ENTERPRISE ARCHITECTURE

The Bureau of Census Enterprise Architecture will support the core business of the Census Bureau functioning as a strategic resource that aligns business and technology, leverages shared assets, builds internal and external partnerships, and optimizes the value of IT services.

"... EA is a PROCESS not a DOCUMENT"

You may already have knowledge of your area's architecture components (IT and Business) and you also have some sense of how they fit into the larger picture.

The Census Bureau and its organizations already have an architecture!

The question and challenge becomes—is the architecture understood and leveraged, where appropriate, throughout the enterprise.

Architecture Capability Maturity

Continuous refinement and increasing our architecture capability maturity is not only required; it will assist the Bureau in meeting its mission.

Our goal is to have the Bureau reach **Level 3** on the Department's Architecture Capability Maturity Model during FY03.

Level 3 is characterized by a: *"defined and acted upon" enterprise architecture process.* The IT area looks forward to working with you on this enterprise-wide opportunity.

Informational Brochures

Establishing EA Partners across the Bureau

Awareness and Education through Census Intranet

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Our EA Partners

We have established EA relationships with a number of key groups.

ISSRO

IT Governing Board

Computer Services Division
BCC Operation Center

Desktop Software Center
Systems Support Division

ITSUPP
IT Standards & Uniform Products Program

Acquisition Division

UNITED STATES DEPARTMENT OF THE TREASURY

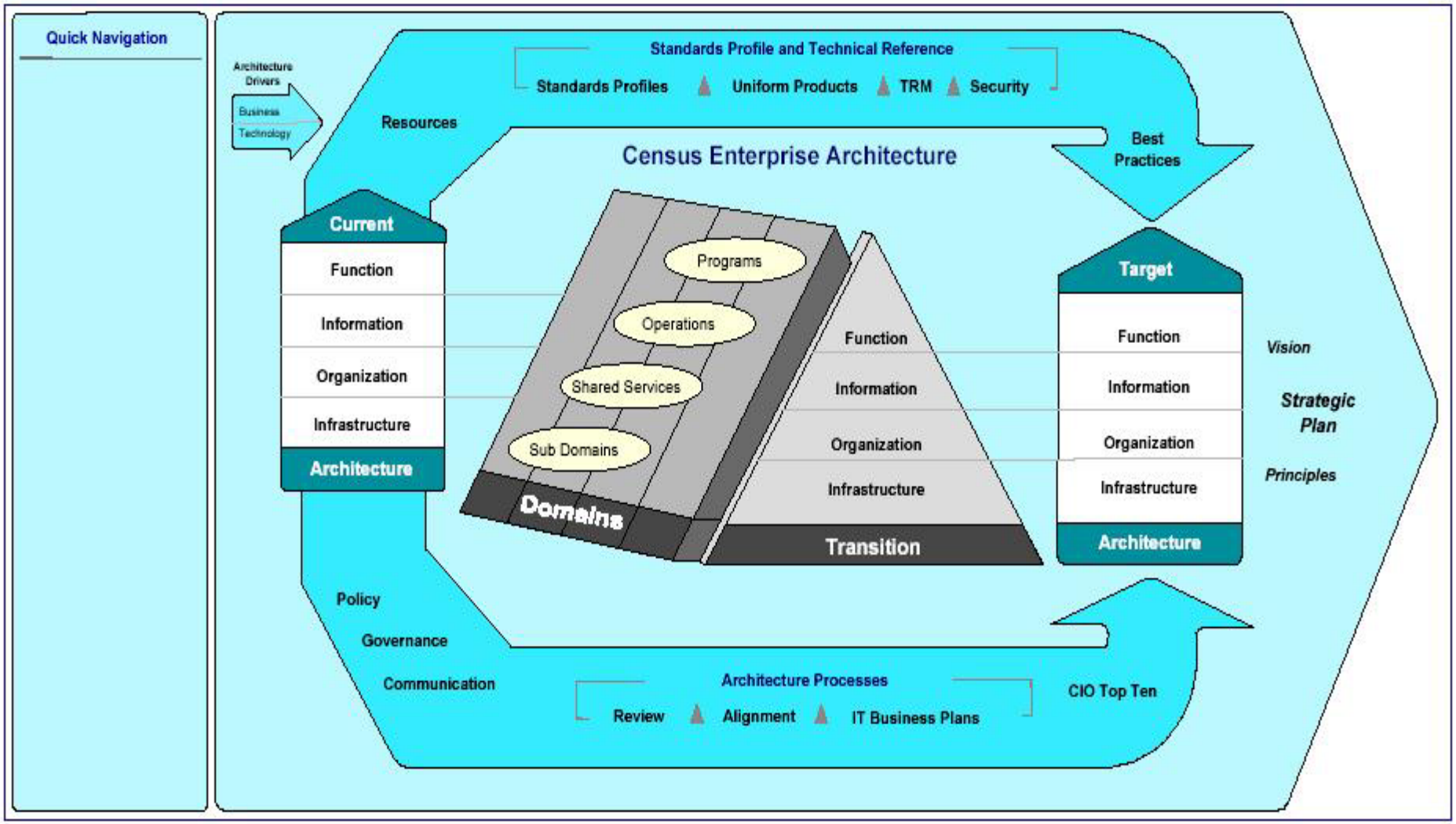
IT SECURITY OFFICE
"THE KEY TO SECURITY"
ITSO

Decennial Enterprise Architecture Working Group

What EA can do for Census

- **Provide status and linkage for IT Business Plans, IT Top Projects, Security, Standards and more**
- **Ensure alignment of IT with Bureau Strategic Plans and Federal Lines of Business**
- **Assist in planning IT Targets, understanding current IT views and implementing migration plans**
- **Maintain IT Service Categories, IT Portfolios and track IT resource allocation**
- **Help promote IT information and knowledge sharing, reduce duplication of effort and leverage economies of scale across the Bureau**

Census EA Framework (user view)



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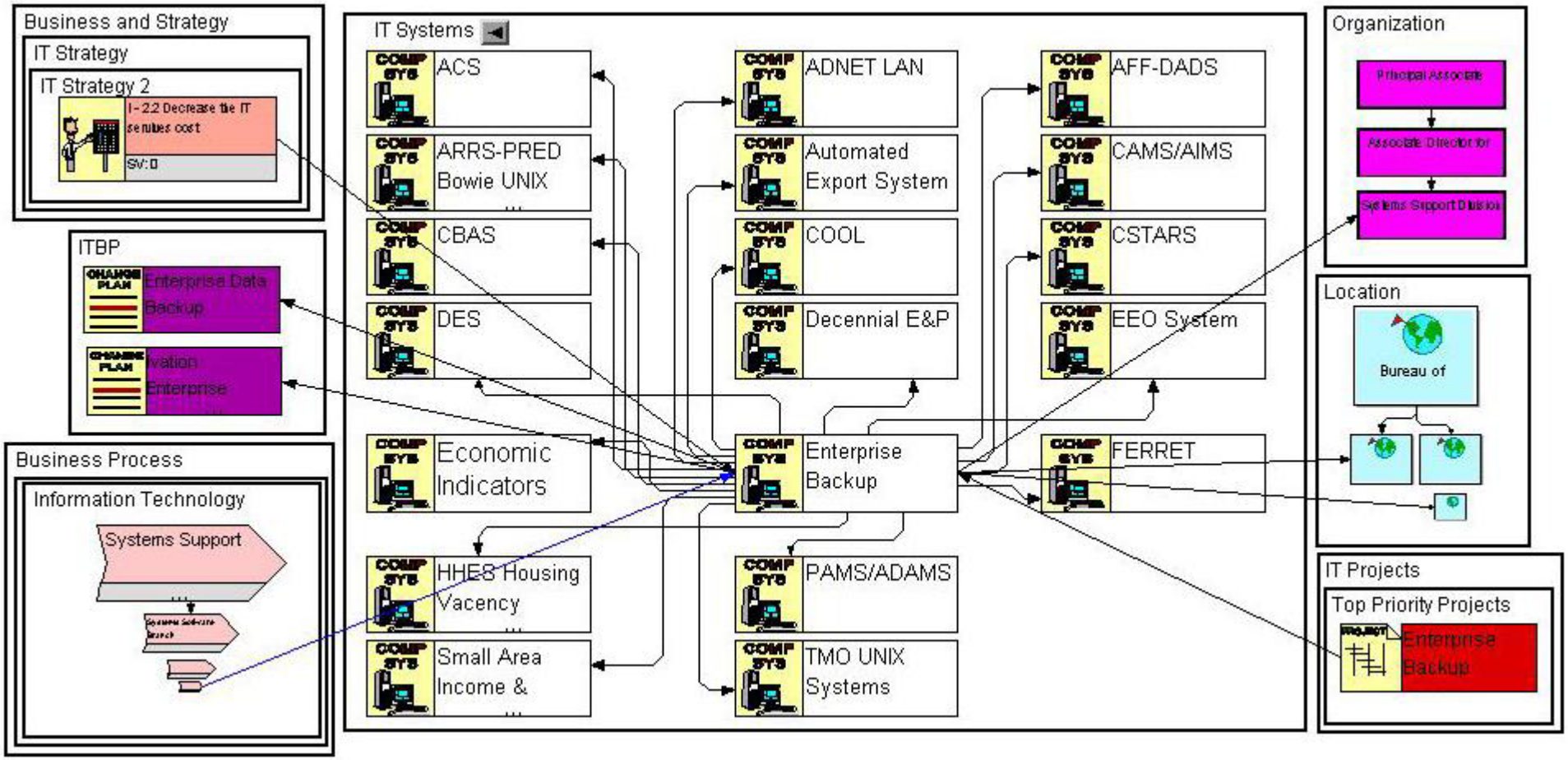
Census EA (architect neighbor highlight)



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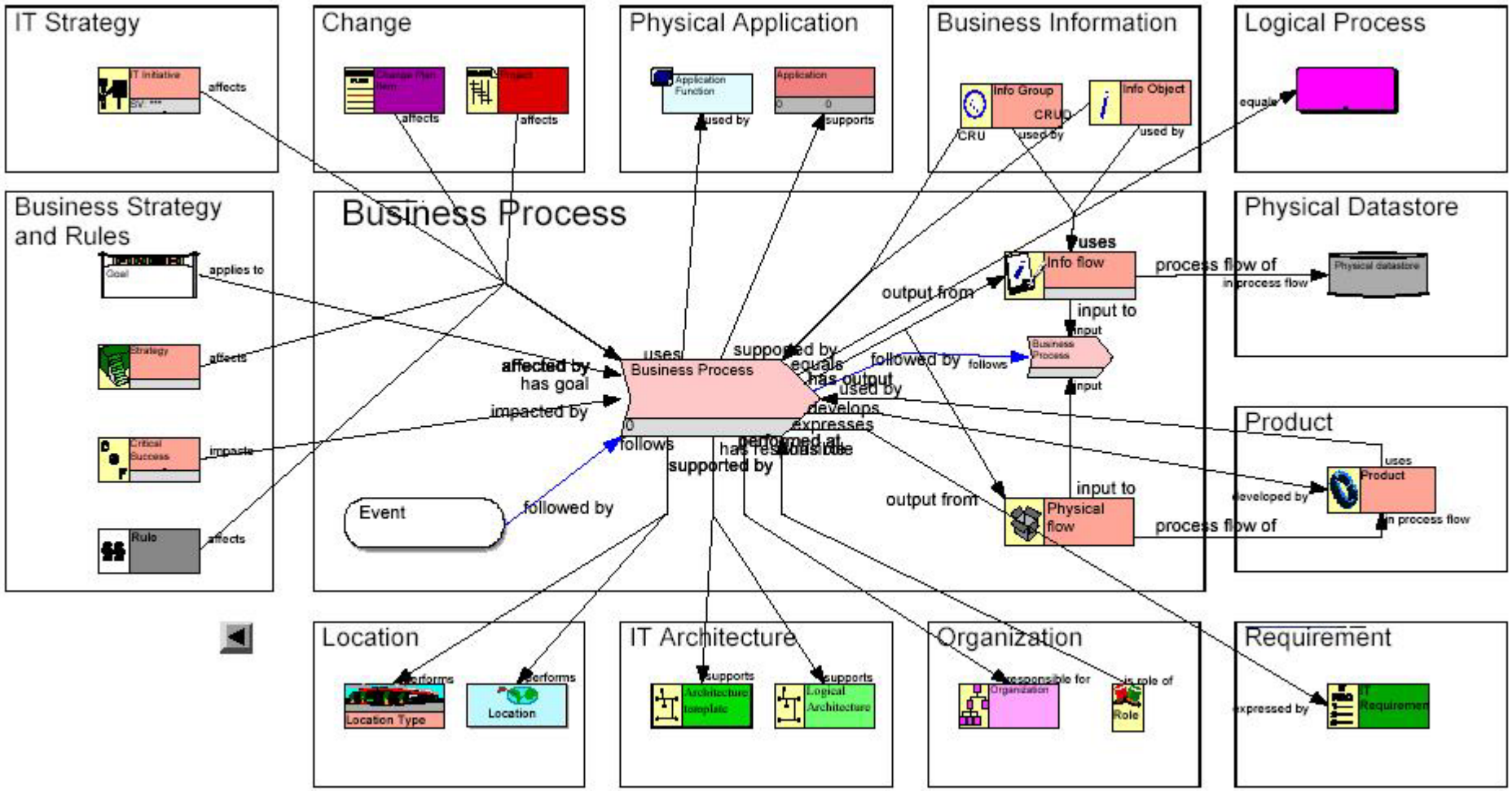
ITM Template – Business Process



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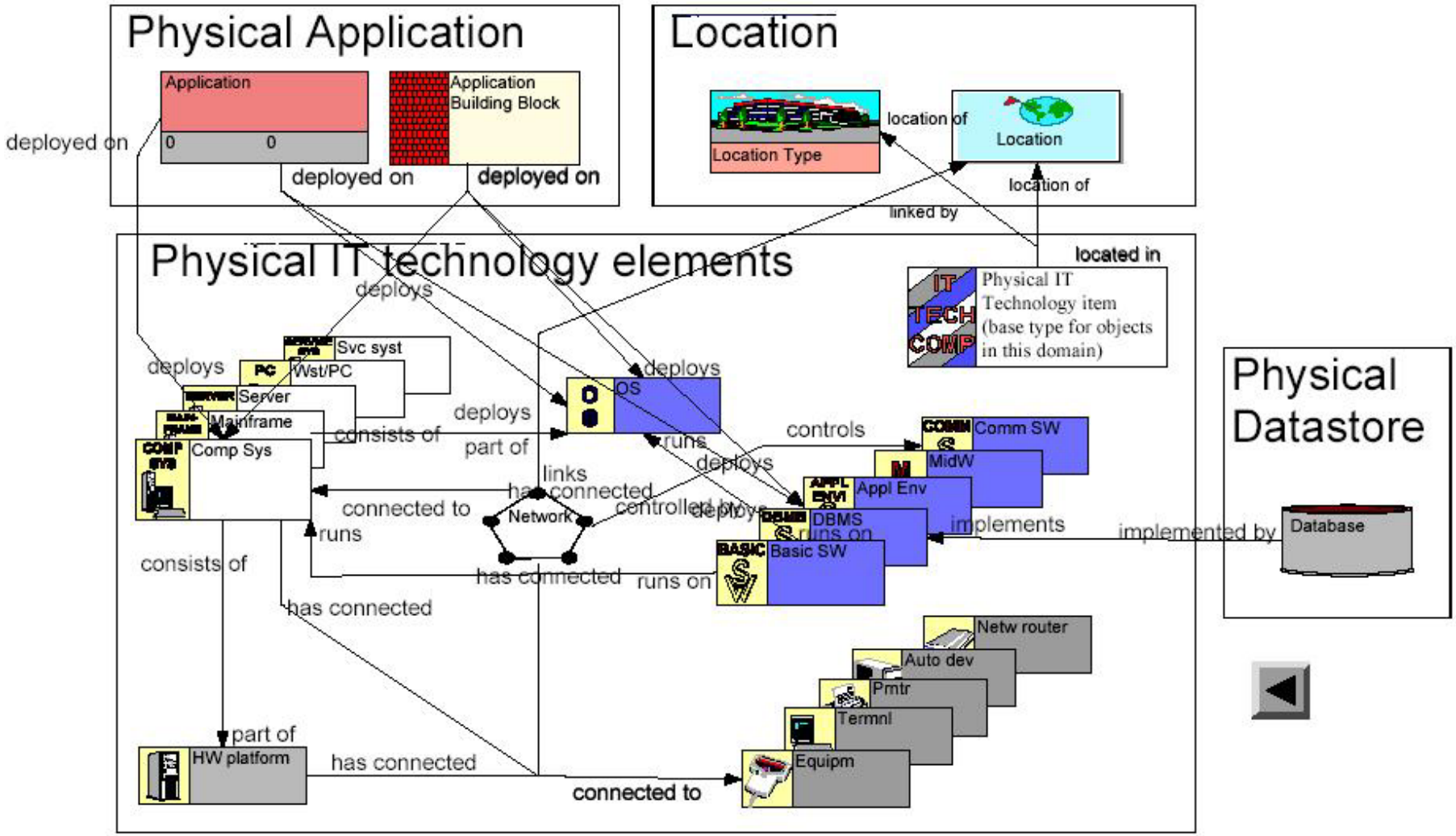
ITM Template - Infrastructure



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EA Tool

EA Tool Environment

- **Evaluated 8 leading EA tools. We selected**

  METIS from Computas, Inc.

- **Key Features**
  - Integrated repository and modeling tool
  - Web publishing capability
  - Supports TEAF & FEAF framework
  - Easy to learn, easy to use
  - Integration with external data sources

Tool Usage Benefits

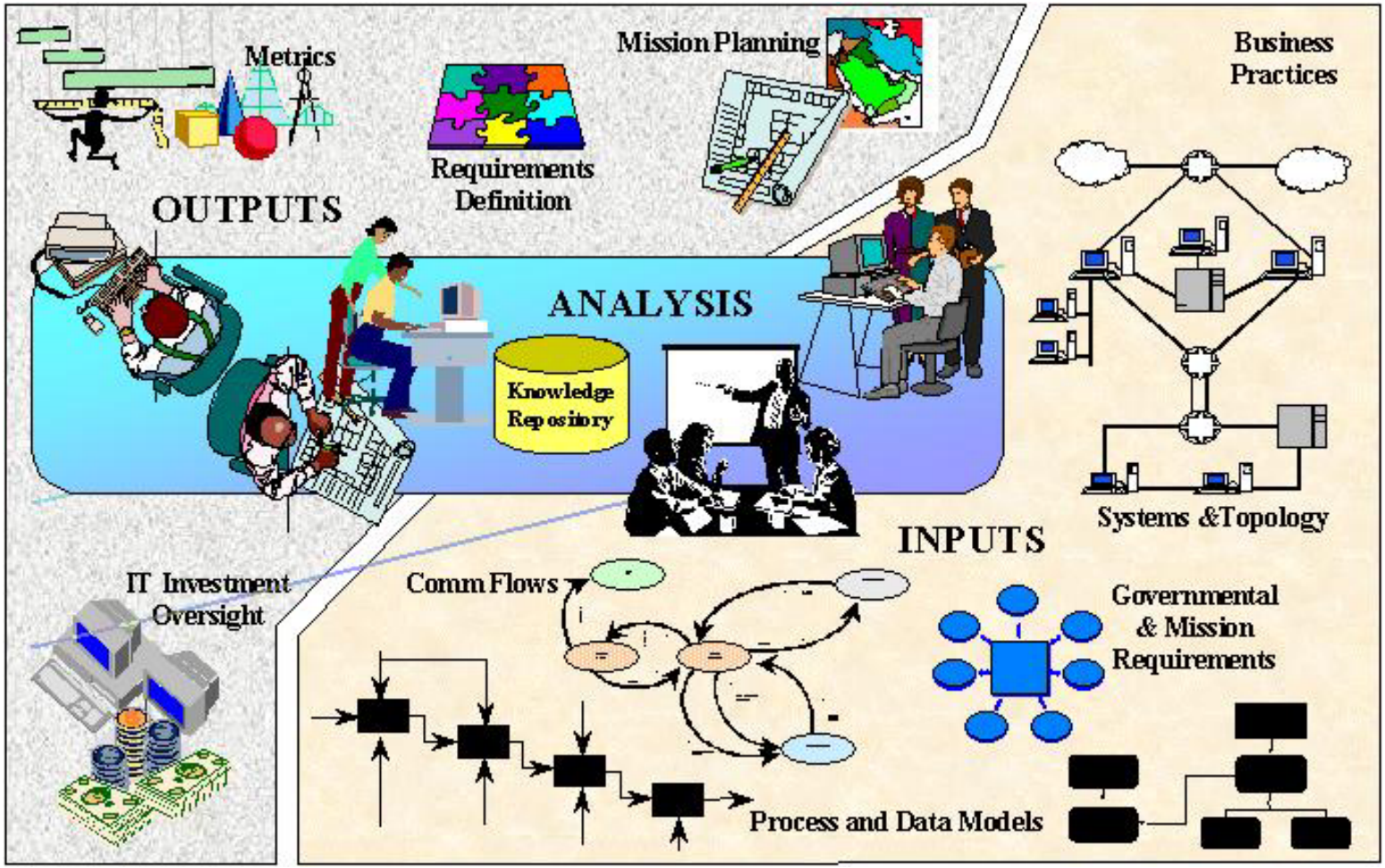
- Communicate effectively with IT Staff
- Build a visual representation of your EA
- Create dynamic EA views on the fly
  for any audience
- Assess effects of changes
- Evaluate and prioritize IT investments
- Manage your EA in a fully secure and distributed web services based repository
- Uses enterprise knowledge to answer critical questions and solve business problems

Some METIS customers include …

- Bureau of Engraving and Printing
- Department of Energy
- U.S. Air Force
- Environmental Protection Agency
- States of California, Delaware, Iowa

- Ford, Sprint, MCI, Domino's
- Bank of America, Discover Card
- NCR
- Boeing

Census EA Components



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